

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2005/000262

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. 7: C12N 1/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WPIDS, CAPLUS, MEDLINE, BIOSIS, BIOTECHABS, AGRICOLA: cryptosporidium, culture, cell, host, media, medium, cell free

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2003/235903 A1 (Thompson <i>et al</i>) 25 December 2003 paragraph 84 whole of document	15-20 1-14, 21-40
X A	Meloni BP <i>et al</i> , "Simplified methods for obtaining purified oocysts from mice and for growing <i>Cryptosporidium parvum</i> in vitro", <i>Journal of Parasitology</i> , 1996, 82(5):757-762 page 758 whole of document	15-20 1-14, 21-40
X A	Upton SJ <i>et al</i> , "Comparative development of <i>Cryptosporidium parvum</i> (Apicomplexa) in 11 continuous host cell lines", <i>FEMS Microbiology Letters</i> , 1994, 118:233-236 page 234 whole of document	15-20 1-14, 21-40

☒ Further documents are listed in the continuation of Box C

☒ See patent family annex

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

15 March 2005

Date of mailing of the international search report

23 MAR 2005

Name and mailing address of the ISA/AU

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	Keegan AR <i>et al</i> , "Cell Culture-Taqman PCR Assay for Evaluation of <i>Cryptosporidium parvum</i> Disinfection", <i>Applied and Environmental Microbiology</i> , 2003, 69(5):2505-2511 page 2506 whole of document	15-20 1-14, 21-40
A	Current WL <i>et al</i> , "Complete development of <i>Cryptosporidium</i> in cell culture", <i>Science</i> , 1984, 224:603-605 whole of document	1-40
A	Hijjawi NS <i>et al</i> , "Successful in vitro cultivation of <i>Cryptosporidium andersoni</i> : evidence for the existence of novel extracellular stages in the life cycle and implications for the classification of <i>Cryptosporidium</i> ", <i>International Journal for Parasitology</i> , 2002, 32:1719-1726 whole of document	1-40
P,X	Hijjawi NS <i>et al</i> , "Complete development of <i>Cryptosporidium parvum</i> in host cell-free culture", <i>International Journal of Parasitology</i> , 2004, 34:769-777 whole of document	1-40

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2005/000262

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in
Search Report

Patent Family Member

US 2003/235903 CA 2 391 116

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX

INTERNATIONAL SEARCH REPORT

International application No.
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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 15 to 20 (partially)
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
The invention resides in the discovery that it is possible to culture *Cryptosporidium* in a cell free culture. Claims 15 to 20 are to a culture medium capable of being used in the methods of the invention, hence are to a culture medium per se. The claims therefore do not define the invention. The claims have only been searched with respect to a culture medium when used in the methods of the invention.

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.